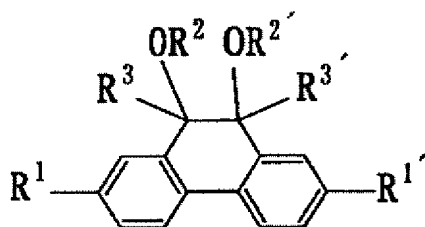


# CLAIMS

1. A dihalide represented by the following formula:

[Formula 1]



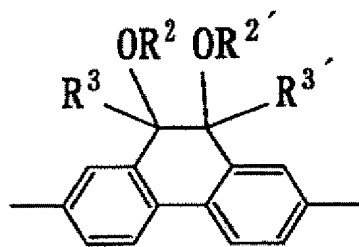
5 (wherein  $R^1$  and  $R^{1'}$  represent a halogen,  $R^2$  and  $R^{2'}$  represent an alkyl group or a silyl group having a substituent, and  $R^3$  and  $R^{3'}$  represent a hydrogen or an alkyl group).

2. A dihalide according to claim 1, wherein the silyl group having the substituent is at least one selected from the group  
10 consisting of  $Si(CH_3)_3$ ,  $Si(n-C_4H_9)_3$ ,  $Si(t-C_4H_9)_3$ ,  $Si(CH_3)_2(C_6H_5)$  and  $Si(CH_3)_2(n-C_{18}H_{37})$ .

3. A dihalide according to claim 1 or 2, wherein the alkyl group is an alkyl group having a carbon number of 1-20.

4. A polymer compound having a structure represented  
15 by the following formula in its main chain:

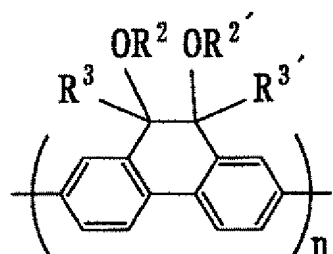
[Formula 2]



(wherein  $R^2$  and  $R^{2'}$  represent an alkyl group or a silyl group having a substituent, and  $R^3$  and  $R^{3'}$  represent a hydrogen or an alkyl group).

20 5. A polymer compound according to claim 4, which is represented by the following formula:

[Formula 3]

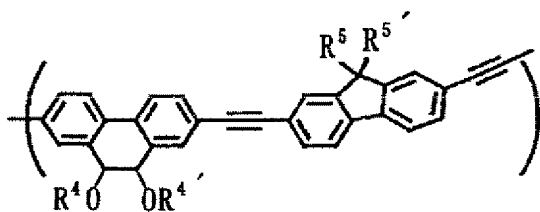


(wherein  $R^2$  and  $R^{2'}$  represent an alkyl group or a silyl group having a substituent,  $R^3$  and  $R^{3'}$  represent a hydrogen or an alkyl group, and  $n$  represents a polymerization degree and is 5-1000).

6. A polymer compound according to claim 4, which is a copolymer comprising the structure represented by the formula claimed in claim 4 and another structure.

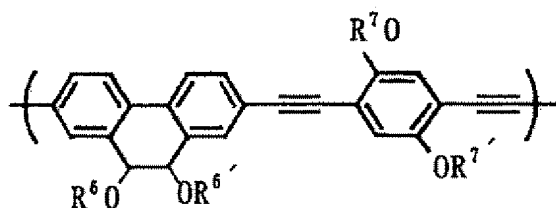
7. A polymer compound according to claim 5, wherein the copolymer is at least one selected from the group consisting of the following formulae:

[Formula 4]



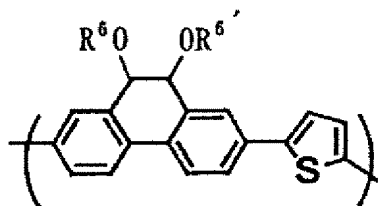
(wherein  $R^4$ ,  $R^{4'}$ ,  $R^5$  and  $R^{5'}$  represent an alkyl group),

[Formula 5]



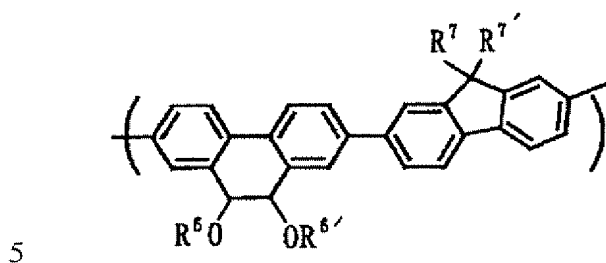
(wherein  $R^6$  and  $R^{6'}$  represent a silyl group having a substituent, and  $R^7$  and  $R^{7'}$  represent an alkyl group),

[Formula 6]



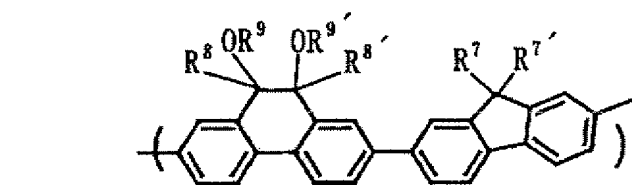
(wherein  $R^6$  and  $R^{6'}$  represent a silyl group having a substituent),

[Formula 7]



(wherein  $R^6$  and  $R^{6'}$  represent a silyl group having a substituent, and  $R^7$  and  $R^{7'}$  represent an alkyl group), and

[Formula 8]



(wherein  $R^7$ ,  $R^{7'}$ ,  $R^8$ ,  $R^{8'}$ ,  $R^9$  and  $R^{9'}$  represent an alkyl group).

8. A polymer compound according to any one of claims 4-7, wherein the alkyl group is an alkyl group having a carbon number of 1-20.

9. A method for producing a polymer compound, in which a polymer compound as claimed in any one of claims 4-8 is obtained by dehalogenation-polymerizing a dihalide as claimed in claim 1 or 2.

10. A method for producing a polymer compound according to claim 8, wherein the dehalogenation-polymerization is performed in the presence of a palladium or nickel compound.

11. A thin film obtained by using a polymer compound as

claimed in any one of claims 4-8.